

What is claimed is;

1. A lens barrel, comprising:

a main optical system;

a blur correction optical system included in the main
5 optical system, that corrects image blur by moving along
directions intersecting an optical axis of the main optical
system;

a lens holding frame that holds the blur correction
optical system and is allowed to move along the directions
10 intersecting the optical axis of the main optical system;

a blur correction drive unit that drives the blur
correction optical system and the lens holding frame; and

a lock mechanism that restricts movement of the blur
correction optical system and the lens holding frame, leaving
15 a play, when blur correction is not executed; wherein:

the lock mechanism comprise a frame engaging portion
provided at the lens holding frame and a movable engaging
portion that moves substantially along the optical axis of
the main optical system and is capable of engaging with the
20 frame engaging portion;

an optical axis of the blur correction optical system
matches the optical axis of the main optical system when the
movable engaging portion and the frame engaging portion are
in contact with each other, after the movable engaging portion
25 moves to a position to engage with the frame engaging portion

and the blur correction optical system and the lens holding frame move in a predetermined direction by the play.

2. A lens barrel according to claim 1, wherein:

5 the predetermined direction corresponds to a direction from the optical axes to a bottom portion of a camera body at which the lens barrel has been mounted.

3. A lens barrel, comprising:

10 a main optical system;

a blur correction optical system included in the main optical system, that corrects image blur by moving along directions intersecting an optical axis of the main optical system;

15 a lens holding frame that holds the blur correction optical system and is allowed to move along the directions intersecting the optical axis of the main optical system;

a blur correction drive unit that drives the blur correction optical system and the lens holding frame;

20 a lock mechanism that restricts movement of the blur correction optical system and the lens holding frame when blur correction is not executed, the lock mechanism comprising a frame engaging portion provided at the lens holding frame and a movable engaging portion that moves substantially along the
25 optical axis of the main optical system and is capable of

engaging with the frame engaging portion; and

a biasing device that applies force to the lens holding frame and the blur correction optical system along a direction intersecting with the optical axis of the main optical system when the movable engaging portion has moved to a position to engage with the frame engaging portion.

4. A lens barrel according to claim 3, wherein:

an optical axis of the blur correction optical system and the optical axis of the main optical system match when the movable engaging portion and the frame engaging portion are caused to be in contact with each other by the biasing device.

5. A lens barrel according to claim 3, wherein:

the biasing device is the blur correction drive unit.

6. A lens barrel according to claim 3, wherein:

the direction along which the biasing device applies the force to the lens holding frame and the blur correction optical system corresponds to a direction from the optical axes to a bottom portion of a camera body at which the lens barrel has been mounted.

7. A lens barrel according to claim 3, wherein:

the main optical system is a photographic optical system that forms an image of a subject to be photographed; and

the biasing device starts applying the force to the lens holding frame and the blur correction optical system immediately before photographing and continues applying the force at least while photographing.

8. A lens barrel according to claim 1, wherein:

the frame engaging portion is a hole provided in the lens holding frame, facing substantially along the optical axis of the main optical system; and

the movable engaging portion is a lock pin capable of being inserted into the hole.

9. A lens barrel, according to claim 3, wherein:

the frame engaging portion is a hole provided in the lens holding frame, facing substantially along the optical axis of the main optical system; and

the movable engaging portion is a lock pin capable of being inserted into the hole.

10. A lens barrel according to claim 4, wherein:

the biasing device is the blur correction drive unit.

11. A lens barrel according to claim 4, wherein:

the direction along which the biasing device applies the force to the lens holding frame and the blur correction optical system corresponds to a direction from the optical axes to a bottom portion of a camera body at which the lens barrel has been mounted.

12. A lens barrel according to claim 5, wherein:

the direction along which the biasing device applies the force to the lens holding frame and the blur correction optical system corresponds to a direction from the optical axes to a bottom portion of a camera body at which the lens barrel has been mounted.

13. A lens barrel according to claim 4, wherein:

the main optical system is a photographic optical system that forms an image of a subject to be photographed; and

the biasing device starts applying the force to the lens holding frame and the blur correction optical system immediately before photographing and continues applying the force at least while photographing.

14. A lens barrel according to claim 5, wherein:

the main optical system is a photographic optical

system that forms an image of a subject to be photographed;
and

the biasing device starts applying the force to the lens
holding frame and the blur correction optical system
5 immediately before photographing and continues applying the
force at least while photographing.

15. A lens barrel according to claim 6, wherein:

the main optical system is a photographic optical
10 system that forms an image of a subject to be photographed;
and

the biasing device starts applying the force to the lens
holding frame and the blur correction optical system
immediately before photographing and continues applying the
15 force at least while photographing.

16. A camera system, comprising:

a camera body; and
a lens barrel according to claim 1.

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17. A camera system, comprising:

a camera body; and
a lens barrel according to claim 3.

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